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      ANSWER 85 OF 97 CA COPYRIGHT 2001 ACS
AN
      80:51831 CA
      Calcium silicate heat-insulating material
TI
IN
      Ito, Keiichi
PA . Aica Kogyo Co., Ltd.
      Japan. Kokai, 4 pp.
      CODEN: JKXXAF
DT
      Patent
LA
      Japanese
NCL
      22(3)C3
CC
      58-3 (Cement and Concrete Products)
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      PATENT NO.
                       KIND DATE
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                                               ______
     JP 48085621 A2 19731113 JP 1972-17885
PT
                                                                  19720221
     In manufg. Ca silicate heat-insulating material, small particles
AB
     produced as a by-product in the manuf. of ferrosilicon and contg. silicic acid at high temps. are used as a SiO2 raw material. The small particles
     are blended with slaked lime, quicklime, or a mixt. of the 2 so that the CaO/SiO2 mole ratio is 0.2-1.5. The blend is mixed well and
     thoroughly with water contg. 1-20% dispersed, solid, org. fibers by kneading or stirring, molded, and treated at a satd. steam pressure 5-25 \,
     kg/cm2 and 151-223.degree. for 4-30 hr to yield Ca silicate heat-
     insulating material. Thus, a heat-insulating material
     (CaO/SiO2 mole ratio 0.4) prepd. from slaked lime (CaO 71%) 31,
     small particles (SiO2 88.0%) 68, water 49, and pulp (5%) 5 parts had a
     bulk d. 0.53 g/cm3, bending strength 40 kg/cm2, thermal cond. 0.08 kcal/m
     hr .degree.C at 25.degree., and a high heat resistance.
     calcium silicate heat insulating
ST
     Thermal insulators
IT
         (calcium silicate, silica from
        ferrosilicon manufg. wastes for)
ΙT
     7631-86-9P, preparation
     RL: PREP (Preparation)
        (from ferrosilicon manufg. wastes, for calcium
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1 ine 31 — 20% Cao/502 ration

510, 68 — 344% very che 54,11 in applials

120 47 ~ 32%

Pulp 5 3%